

```
lw 0 1 five.
010 000 001 110
```

```

31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
  opt  reg A      reg B      offset.

```

```
lw 0 4 SubAdr.
010 000 010 0
```

```
jalu 4 7
100 100 111 00000000
```

```
beq 0 1 done.
100 000 001 1
```

objective file.

```

text
for all
objective
files

```

```

relocation

```

linker  
map

lw a.

a. fill 1.

```

data

```

main.as

```

0 lw 0 1 five
1 lw 0 4 SubAdr
2 start jalr 4 7
3 beq 0 1 done
4 beq 0 0 start
5 done halt
6 five .fill 5.

```

subone.as

```

subone lw 0 2 neg1
add 1 2 1
jalr 7 6
neg1 .fill -1
SubAdr .fill subone.

```

relocation table for main.

```

0 lw 1 five.
1 lw SubAdr.

```

← if global then go to symbol table.  
? from here we know in Text or Data.

in relocation.

only 0 lw  
1 sw  
2 .fill,

```

lw 0 1 five 0
lw 0 4 SubAdr 1
start jalr 4 7 2
beq 0 1 done 3
beq 0 0 start 4
done halt 5

```

```

subone lw 0 2 neg1 6
add 1 2 1 7
jalr 7 6 8

```

```

five .fill 5. 9

```

```

neg1 .fill -1 10
SubAdr .fill subone. 11

```



